

Listing of Claims

The following listing of claims replaces all prior versions.

1 1. (Currently amended) A system for remotely correlating and displaying
2 dissimilar communication protocol identifiers in real time, comprising:
3 user communication information carried on a network, where the user
4 communication information is characterized by at least two dissimilar communication
5 protocols;
6 a first communication protocol associated with a first communication network;
7 a second communication protocol associated with a second communication
8 network; and
9 an analysis device remote from and coupled to the first communication network
10 and to the second communication network, the analysis device configured to passively
11 detect external correlation key data identifying a first call portion associated with the
12 first communication protocol, and configured to passively detect external correlation
13 key data identifying a second call portion associated with the second communication
14 protocol, the external correlation key data obtained by the analysis device, the external
15 correlation key data characterizing a signaling message related to the first
16 communication protocol and characterizing a signaling message related to the second
17 communication protocol, where the external correlation key data is separate from the
18 signaling message related to the first communication protocol and the signaling
19 message related to the second communication protocol, where the external correlation
20 key data comprises information identifying the first communication protocol and the
21 second communication protocol, and wherein the external correlation key data is
22 detected in real time and characterizes a single call.

1 2. (Currently amended) The system of claim 1, wherein the external
2 correlation key data allows the first call portion and the second call portion to be
3 displayed to a user in real-time in a call flow record.

1 3. (Currently amended) The system of claim 2, wherein the external
2 correlation key data relates to a signaling protocol associated with the first
3 communication protocol and the second communication protocol.

1 4. (Currently amended) The system of claim 3, wherein the external
2 correlation key data is supplied to an analysis device that is coupled to the first
3 communication network and to the second communication network, and wherein the
4 external correlation key data is supplied by a customer provided communication
5 device.

1 5. (Currently amended) The system of claim 4, wherein the external
2 correlation key data comprises information relating to multiple telephone calls that
3 span the dissimilar communication protocols.

1 6. (Currently amended) The system of claim 2, wherein the external
2 correlation key data identifies dissimilar signaling protocols related to a telephone call,
3 and wherein a first signaling protocol complies with signaling system seven integrated
4 services digital network user part (SS7 ISUP).

1 7. (Currently amended) The system of claim 2, wherein the external
2 correlation key data identifies dissimilar signaling protocols related to a telephone call,
3 and wherein the second communication protocol complies with media gateway control
4 protocol (MGCP).

1 8. (Canceled)

1 9. (Currently amended) A method for remotely correlating and displaying
2 dissimilar communication protocol signaling messages, comprising:
3 receiving communication information that spans at least two dissimilar
4 communication networks;
5 passively detecting in an analysis device remote from and coupled to the first

6 communication network a first call identifier associated with a first communication
7 protocol; and
8 passively detecting in the analysis device external correlation key data
9 identifying a first call portion associated with the first communication protocol, and a
10 second call portion associated with a second communication protocol, the external
11 correlation key data obtained by the analysis device, the external correlation key data
12 characterizing a signaling message related to the first communication protocol and
13 characterizing a signaling message related to the second communication protocol,
14 where the external correlation key data is separate from the signaling message related
15 to the first communication protocol and the signaling message related to the second
16 communication protocol, where the external correlation key data comprises information
17 identifying the first communication protocol and the second communication protocol,
18 and wherein the external correlation key data is detected in real time and characterizes
19 a single call.

1 10. (Original) The method of claim 9, further comprising displaying the
2 first call portion and the second call portion to a user in real-time in a call flow record.

1 11. (Currently amended) The system of claim 10, wherein the external
2 correlation key data relates to a signaling protocol associated with the first
3 communication protocol and the second communication protocol.

1 12. (Currently amended) The method of claim 11, further comprising
2 supplying the external correlation key data to an analysis device that is coupled to the
3 dissimilar communication networks, and wherein the external correlation key data is
4 supplied by a customer provided communication device.

1 13. (Currently amended) The method of claim 12, wherein the external
2 correlation key data comprises information relating to multiple telephone calls that
3 span the dissimilar communication networks ~~network~~.

1 14. (Currently amended) The method of claim 10, wherein the external
2 correlation key data identifies dissimilar signaling protocols related to a telephone call,
3 and wherein a first signaling protocol complies with signaling system seven integrated
4 services digital network user part (SS7 ISUP).

1 15. (Currently amended) The method of claim 10, wherein the external
2 correlation key data identifies dissimilar signaling protocols related to a telephone call,
3 and wherein the second communication protocol complies with media gateway control
4 protocol (MGCP).

1 16. (Canceled)

1 17. (Currently amended) A computer readable medium having a stored
2 program, the stored program comprising executable code for remotely correlating and
3 displaying dissimilar communication protocol signaling messages, comprising:
4 logic for receiving communication information that spans at least two dissimilar
5 communication networks;
6 logic for passively detecting a first call identifier associated with a first
7 communication protocol; and
8 logic for passively detecting in an analysis device remote from and coupled to
9 the at least two dissimilar communication networks external correlation key data
10 identifying a first call portion associated with the first communication protocol, and a
11 second call portion associated with ~~a the~~ second communication protocol, the external
12 correlation key data obtained by an analysis device, the external correlation key data
13 characterizing a signaling message related to the first communication protocol and
14 characterizing a signaling message related to the second communication protocol,
15 where the external correlation key data is separate from the signaling message related
16 to the first communication protocol and the signaling message related to the second
17 communication protocol, where the external correlation key data comprises information
18 identifying the first communication protocol and the second communication protocol,
19 and wherein the correlation data is detected in real time and characterizes a single call.

1 18. (Original) The program of claim 17, further comprising logic for
2 displaying the first call portion and the second call portion to a user in real-time in a
3 call flow record.

1 19. (Canceled)

1 20. (Currently amended) The program of claim 19, further comprising logic
2 for supplying the external correlation key data to an analysis device that is coupled to
3 the dissimilar communication networks, and wherein the external correlation key data
4 is supplied by a customer provided communication device.

1 21. (Currently amended) The program of claim 20, wherein the external
2 correlation key data comprises information relating to multiple telephone calls that
3 span the dissimilar communication networks ~~network~~.

1 22. (Currently amended) The program of claim 18, wherein the external
2 correlation key data identifies dissimilar signaling protocols related to a telephone call,
3 and wherein a first signaling protocol complies with signaling system seven integrated
4 services digital network user part (SS7 ISUP).

1 23. (Currently amended) The program of claim 18, wherein the external
2 correlation key data identifies dissimilar signaling protocols related to a telephone call,
3 and wherein the second communication protocol complies with media gateway control
4 protocol (MGCP).

1 24. (Canceled)

1 25. (Currently amended) A system for remotely correlating and displaying
2 dissimilar communication protocol identifiers in real time, comprising:
3 user communication information carried on a network, where the user
4 communication information is characterized by at least two dissimilar communication

5 protocols;
6 a first communication protocol associated with a first communication network;
7 a second communication protocol associated with a second communication
8 network; and
9 an analysis device remote from and coupled to the first communication network
10 and to the second communication network, the analysis device configured to passively
11 detect external correlation key data identifying a first call portion associated with the
12 first communication protocol, and configured to passively detect external correlation
13 key data identifying a second call portion associated with the second communication
14 protocol, the external correlation key data obtained by an analysis device, the external
15 correlation key data characterizing a signaling message related to the first
16 communication protocol and characterizing a signaling message related to the second
17 communication protocol, where the external correlation key data is separate from the
18 signaling message related to the first communication protocol and the signaling
19 message related to the second communication protocol, where the external correlation
20 key data comprises information identifying the first communication protocol and the
21 second communication protocol, wherein the external correlation key data is passively
22 detected in real time, and wherein the first communication protocol is SS7 and the
23 second communication protocol is internet protocol (IP).